

WHAT IS CLAIMED IS:

1. A cross-linkable fluoropolymer dispersion comprising:
 - a) a polymer product of at least one polymerizable acrylic and/or vinyl containing monomer;
 - b) in the presence of an aqueous dispersion of at least one fluoropolymer, wherein at least one hydrolytically stable silane containing group is present in a), b), or both.
2. A cross-linkable fluoropolymer blend comprising:
 - a) at least one acrylic resin or vinyl resin, or both,
 - b) at least one thermoplastic fluoropolymer, wherein a) and b) are different, wherein at least one hydrolytically stable silane or silane group is polymerized in the backbone of a), b), or both.
3. The polymer blend of claim 2, wherein said at least one thermoplastic fluoropolymer is uniformly distributed throughout said cross-linkable fluoropolymer blend.
4. A cross-linkable fluoropolymer blend comprising:
 - a) at least one polymer comprising acrylic units, vinyl units, or both, and at least one hydrolytically stable silane or silane containing group; and
 - b) at least one thermoplastic fluoropolymer, wherein a) and b) are different.
5. A cross-linkable fluoropolymer dispersion comprising a polymer product resulting from polymerizing at least one polymerizable acrylic and/or vinyl containing monomer and at least one hydrolytically stable silane monomer in the presence of an aqueous dispersion of at least one fluoropolymer.

6. The polymer blend of claim 2, wherein said at least one thermoplastic fluoropolymer is a copolymer.

7. The polymer blend of claim 2, wherein said fluoropolymer comprises poly(vinylidene fluoride).

8. The polymer blend of claim 2, wherein said acrylic resin or vinyl resin is fluorinated.

9. The polymer blend of claim 2, wherein said acrylic resin or vinyl resin is a copolymer.

10. The polymer blend of claim 2, wherein said fluoropolymer is a homopolymer.

11. The polymer blend of claim 2, wherein said fluoropolymer is a mixture of a fluoropolymer with a non-fluoropolymer.

12. The polymer blend of claim 2, wherein said polymer product includes a functional monomer.

13. The polymer blend of claim 2, wherein said hydrolytically stable silane monomer is a sterically hindered organosilane monomer.

14. The polymer blend of claim 13, wherein said hydrolytically stable silane monomer is a silane monomer containing at least one vinyl group, a silane group present as a chain transfer agent or initiator, an organosilane group having a functional group which can react with a functional side group on an existing polymer chain, or combinations thereof.

15. A cross-linkable fluoropolymer blend comprising:

- a) at least one polymer comprising acrylic units, vinyl units, or both and optionally at least one hydrolytically stable silane or silane containing group; and
- b) at least one thermoplastic fluoropolymer having an organosilane moiety, wherein a) and b) are different.

16. A method of preparing a cross-linkable fluoropolymer dispersion comprising polymerizing at least one polymerizable acrylic and/or vinyl containing monomer and at least one hydrolytically stable silane monomer in the presence of an aqueous dispersion of at least one fluoropolymer.

17. A method of making a cross-linkable fluoropolymer dispersion comprising polymerizing at least one fluoromonomer in the presence of a hydrolytically stable silane monomer to form a fluoropolymer containing silane units and polymerizing at least one acrylic and/or vinyl containing monomer in the presence of the fluoropolymer dispersion.

18. A paint comprising the cross-linkable fluoropolymer dispersion of claim 1.

19. A coating formulation comprising the cross-linkable fluoropolymer dispersion of claim 1.

20. A cross-linked fluoropolymer resulting from cross-linking said cross-linkable fluoropolymer dispersion of claim 1.

21. The cross-linkable fluoropolymer dispersion of claim 1, further comprising at least one internal buffer.